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OM protein - protein search, using sw model

Run on: December 26, 2001, 10:35:29 ; Search time 9.67 Seconds
(without alignments)
611.308 Million cell updates/sec

Title: US-09-497-967-7
Perfect score: 2540
Sequence: 1 MKNILVILIISLFINQIKS.....QCDNFANFLSILLISYILL 468

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 68061 seqs, 12631088 residues

Total number of hits satisfying chosen parameters: 68061

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Pending_Patents_AA_New: *
1: /cgn2_6/ptodata/2/paa/PCT_NEW_COMB.pcp.*
2: /cgn2_6/ptodata/2/paa/US06_NEW_COMB.pcp.*
3: /cgn2_6/ptodata/2/paa/US07_NEW_COMB.pcp.*
4: /cgn2_6/ptodata/2/paa/US08_NEW_COMB.pcp.*
5: /cgn2_6/ptodata/2/paa/US09_NEW_COMB.pcp.*
6: /cgn2_6/ptodata/2/paa/US10_NEW_COMB.pcp.*
7: /cgn2_6/ptodata/2/paa/US60_NEW_COMB.pcp.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Query	Score	Match	Length	ID	Description
1	2540	100.0	468	5	US-09-497-967-7	Sequence 7, Appl
2	2533	99.7	468	5	US-09-497-967-7	Sequence 54, Appl
3	921	36.3	442	5	US-09-497-967-6	Sequence 6, Appl
4	801.5	31.6	409	5	US-09-497-967-61	Sequence 61, Appl
5	424	16.7	76	5	US-09-497-967-57	Sequence 57, Appl
6	404	15.9	72	5	US-09-497-967-55	Sequence 55, Appl
7	403	15.9	71	5	US-09-497-967-58	Sequence 58, Appl
8	389	15.3	72	5	US-09-497-967-60	Sequence 60, Appl
9	375	14.8	70	5	US-09-497-967-56	Sequence 56, Appl
10	373	14.7	70	5	US-09-497-967-59	Sequence 59, Appl
11	237.5	9.4	914	5	US-09-975-143-47	Sequence 47, Appl
12	222.5	8.8	4852	1	PCT-US01-32140-33	Sequence 33, Appl
13	212	8.3	72	5	US-09-497-967-12	Sequence 12, Appl
14	197.5	7.8	975	5	US-09-886-055-431	Sequence 431, App
15	186	7.3	410	5	US-09-500-746-17	Sequence 17, Appl
16	185	7.3	399	5	US-09-497-967-62	Sequence 62, Appl
17	183.5	7.2	1842	5	US-09-977-053-6	Sequence 6, Appl
18	183.5	7.2	3571	5	US-09-977-053-4	Sequence 4, Appl
19	179.5	7.1	89	5	US-09-497-967-9	Sequence 9, Appl
20	179.5	7.1	425	5	US-09-500-746-18	Sequence 18, Appl
21	179.5	7.1	1551	5	US-09-970-318-4	Sequence 4, Appl
22	177	7.0	605	5	US-09-976-594-616	Sequence 616, App
23	175	6.9	377	5	US-09-500-746-20	Sequence 20, Appl
24	172.5	6.8	89	5	US-09-497-967-10	Sequence 10, Appl
25	172.5	6.8	709	5	US-09-991-496-121	Sequence 121, App
26	170.5	6.7	462	5	US-09-500-746-23	Sequence 23, Appl

27	170	6.7	376	5	US-09-500-746-19	Sequence 19, Appl
28	168.5	6.6	69	5	US-09-497-967-11	Sequence 11, Appl
29	162.5	6.4	735	5	US-09-898-570-10	Sequence 10, Appl
30	162.5	6.4	845	5	US-09-898-570-12	Sequence 12, Appl
31	162.5	6.4	974	5	US-09-898-570-14	Sequence 14, Appl
32	162	6.4	1009	5	US-09-898-570-16	Sequence 16, Appl
33	153.5	6.0	83	5	US-09-497-967-8	Sequence 8, Appl
34	153	6.0	392	5	US-09-898-570-39	Sequence 39, Appl
35	150.5	5.9	1169	5	US-09-801-368-106	Sequence 106, App
36	150.5	5.9	1169	5	US-09-487-558-106	Sequence 106, App
37	144.5	5.7	320	5	US-09-991-496-22	Sequence 22, Appl
38	144.5	5.7	320	5	US-09-991-496-55	Sequence 55, Appl
39	144	5.7	292	5	US-09-500-746-21	Sequence 21, Appl
40	143.5	5.6	610	5	US-09-857-670-19	Sequence 19, Appl
41	142.5	5.6	871	5	US-09-868-987-21	Sequence 21, Appl
42	142.5	5.6	871	5	US-09-886-468-21	Sequence 21, Appl
43	140	5.5	566	5	US-09-900-449A-6	Sequence 6, Appl
44	139.5	5.5	639	5	US-09-900-449A-4	Sequence 4, Appl
45	137.5	5.4	572	5	US-09-900-449A-7	Sequence 7, Appl

ALIGNMENTS

RESULT 1
US-09-497-967-7
; Sequence 7, Application US/09497967
; GENERAL INFORMATION:
; APPLICANT: Clark, Theodore G.
; APPLICANT: Dickerson, Jr., Harry W.
; APPLICANT: Lin, Iian-Long
; TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF
; FILE REFERENCE: 235.00170101
; CURRENT APPLICATION NUMBER: US/09/497,967
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/131,121
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/118,634
; PRIOR FILING DATE: 1999-02-04
; PRIOR APPLICATION NUMBER: 60/122,372
; PRIOR FILING DATE: 1999-03-02
; PRIOR APPLICATION NUMBER: 60/124,905
; PRIOR FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 7
; LENGTH: 468
; TYPE: PRT
; ORGANISM: Ichthyophthirius multifiliis
US-09-497-967-7

Query Match 100.0%; Score 2540; DB 5; Length 468;
Best Local Similarity 100.0%; Pred. No. 7.9e+199;
Matches 468; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy	1	MKNILVILIISLFINQIKSANGCPVGTETNTAGQVDDLGTPANCVCNKFNFNNAAFV	60
Db	1	MKNILVILIISLFINQIKSANGCPVGTETNTAGQVDDLGTPANCVCNKFNFNNAAFV	60
Qy	61	PGASTCTPCPKKDKAGAPNPATANLVTCNVKCPAGTAIAGGATDYAAIITECVNCRI	120
Db	61	PGASTCTPCPKKDKAGAPNPATANLVTCNVKCPAGTAIAGGATDYAAIITECVNCRI	120
Qy	121	NFYENAPNFNAGASTCTCPVNRVGGALTAGNAATIVACNVACPTGALDDGVTDDV	180
Db	121	NFYENAPNFNAGASTCTCPVNRVGGALTAGNAATIVACNVACPTGALDDGVTDDV	180
Qy	181	RSFTECVKRLNYYNGNGNTFPNPGKSOCTPCPAIKPANVAQATLGNDAITTAQCNA	240
Db	181	RSFTECVKRLNYYNGNGNTFPNPGKSOCTPCPAIKPANVAQATLGNDAITTAQCNA	240

RESULT 3
US-09-497-967-6

APPLICANT: Dickerson, Jr., Harry W.
 APPLICANT: Luo, Tian-Long
 TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF
 TITLE OF INVENTION: ICHTHYOPHTHIRIUS
 FILE REFERENCE: 235.00170101
 CURRENT APPLICATION NUMBER: US/09/497,967
 CURRENT FILING DATE: 2000-02-04
 PRIOR APPLICATION NUMBER: 60/131,121
 PRIOR FILING DATE: 1999-04-27
 PRIOR APPLICATION NUMBER: 60/118,634
 PRIOR FILING DATE: 1999-02-04
 PRIOR APPLICATION NUMBER: 60/122,372
 PRIOR FILING DATE: 1999-03-02
 PRIOR APPLICATION NUMBER: 60/124,905
 PRIOR FILING DATE: 1999-03-17
 NUMBER OF SEQ ID NOS: 102
 SOFTWARE: Patentin Ver. 2.1
 SEQ ID NO 6
 LENGTH: 442
 TYPE: PRT
 ORGANISM: Ichthyophthirius multifiliis
 US-09-497-967-6

QY
57 AAFVPGASTCTPCPKKDAGAPNPPTANLVTCNVKCPAGTAIAGSATDYALITECV 116

||
OCTANCNODEMAN----- 71

QY	117	NCRINFY	NENAFNF	NAGASTCT	CPVNR	VGALTAG	NAATIA	VAOCN	ACPGT	ALDDGVT	176		
Db	72	-----	-----	-----	-----	-----	-----	-----	-----	-----	117		
QY	177	TDVRSF	TECVK	RLNFY	NGNN--	-GNTP-	-----	-FNPG-	-----	-KSQTP	PCPKAN	221	
Db	118	DVFDRA	SAOCV	CKPNF	YNGSG	SPOGEA	PGVQV	FAAGAA	AGVAAVT	SQCVPC	QNLN--	175	
QY	222	VAQATL	GNDAIT	TAACN	ACVPD	GTTISA	AGVNN	WVAQNT	--CTN	CAPNFY	NN-----	272	
Db	176	DSPATAG	AQANLAT	QCSN	QCTGT	VLDDGVT	--LVFN	TATL	CVKCR	PNFYNG	SGSQGE	233	
QY	273	APN--	--FNPG-	-----	-----	-----	-----	-----	-----	-----	-----	320	
Db	234	APGVQV	FAAGAA	AGVAAVT	SQCVPC	QNLN--	-DSPAT	AGAQAN	LATQCS	TQCTGT	GTATQD	299	
QY	321	GAT--	NVYLQ	TECLN	CAANFY	FDGNN	FQAGS	RCKAC	APANK	VQGA	VATAGT	ATLQAQA	375
Db	293	GVTLVFS	NSSTQ	SOCIAN	YFNG--	NFEAGK	SOLCK	PCPVSK	TTPAHA--	PGWAT	QAQATQCL	355	

QY	380	LECPAGTVLTDTGTTSTYKQAASECVKCAANFYTTKQTDWVAGIDTCTSCNKKLTSGAEAN	439
DB	351	TTCPACTVLDGDTSTNFVASATECTKCSAGFASKTGTGTAGTDTCTECTKKLTSGATAK	410
QY	440	LPESAKNNIQC---DFANFLSISILLISYLL	468
DB	411	VYAEATQKVQCCASTTFAKFLSISLLFISFVLL	442
RESULT 4			
US-09-497-967-61			
; Sequence 61, Application US/09497967			
; GENERAL INFORMATION:			
; APPLICANT: Clark, Theodore G.			
; APPLICANT: Dickerson, Jr., Harry W.			
; APPLICANT: Lin, Tian-Long			
; TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF			
; TITLE OF INVENTION: ICHTHYOPHTHIRIUS			
; FILE REFERENCE: 235.00170101			
; CURRENT APPLICATION NUMBER: US/09/497,967			
; CURRENT FILING DATE: 2000-02-04			
; PRIOR APPLICATION NUMBER: 60/131,121			
; PRIOR FILING DATE: 1999-04-27			
; PRIOR APPLICATION NUMBER: 60/118,634			
; PRIOR FILING DATE: 1999-02-04			
; PRIOR APPLICATION NUMBER: 60/122,372			
; PRIOR FILING DATE: 1999-03-02			
; PRIOR APPLICATION NUMBER: 60/124,905			
; PRIOR FILING DATE: 1999-03-17			
; NUMBER OF SEQ ID NOS: 102			
; SOFTWARE: PatentIn Ver. 2.1			
; SEQ ID NO 61			
; LENGTH: 409			
; TYPE: PRT			
; ORGANISM: Ichthyophthirius multifiliis			
US-09-497-967-61			
Query Match 31.6%; Score 801.5; DB 5; Length 409;			
Best Local Similarity 39.5%; Pred. No. 4.8e-58;			
Matches 187; Conservative 39; Mismatches 137; Indels 111; Gaps			
QY	23	CPVCTENTAGQVD---DLGITPANCVCNCKNFYNNAAAFVPGASTCTPCPQKKDAQAG	78
DB	4	CPDGTQIQ--AGLTDVGAADLGT---CVNCRPNFYNGCAA-----QGEAN	44
QY	79	PNPPATANLVTCNVKPCAGTAIAGGATDYAAIIITCEVNCRINFYENAPNFNAGASTCT	138
DB	45	GNQPPFAAN-----NAARGIV	60
QY	139	ACPVRNRYGGALTAGNAATIVAOQCNVACPGTGTALDDGVTTDYVRSFTCEVKCRLNFYNGN	198
DB	61	PCQINRVGSVTNAGDLATLATQCTCGTGTALDDGVTDVDRSAAQCVCCKPNFYNGG	120
QY	199	N--GNTP-----FNPG-----KSQCTPCPAIKPANVAQATLGNDAITTAQCNVACPD	243
DB	121	SPOGEAPGVQVFAAGAAAGAAVVSQCVPCQLNK--NDSPATAGAANUATQCSNOCP	178
QY	244	GTISAQVNNVQAQNTPE---CTNCAPNFYNN-----NAPN-----FNPG-----NST	282
DB	179	GTVLDDGVT--LVFNTSATLVCKRPNFYNGSGSPOGEAPGVQVFAAGAAAGAAVVAVTSQ	236
QY	283	CLPCPANKDYGABATAGGATLAKCNITACPDGTAIASGAT--NVYILQTECLNCAANFYF	341
DB	237	CVPCQLNKN--DSPATAGAANUATQCSQCTPGTAIQDGVTLVFSNSTQCSQCIANFYF	295
QY	342	DGNFNQAGSSRCKACPAKPVQGAATAGGTATLIAQCALECPACTVLTGDTTSTYKQAAS	401
DB	296	NG--NFEAGKSQCLKCPVSKTTPAHA--PGNTATATQCLITCTPACTVLDGDTSTNFVASAT	353
QY	402	ECVKCAANFYTTKQTDWVAGIDTCTSCNKKLTSGAEANLPSAKKNTQCFDANF	455

Wed Dec 26 12:01:38 2001

us-09-497-967-7.rapn

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Query Match      15.9%; Score 404; DB 5; Length 72;
Best Local Similarity 100.0%; Pred. No. 1.2e-26;
Matches 72; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 23 CPVGTETTAGVDLGPANVCNCKNFYNNAAAFVPGASTCTPCPKKDKAGAQPNPP 82
      |||
Db 1 CPVGTETTAGVDLGPANVCNCKNFYNNAAAFVPGASTCTPCPKKDKAGAQPNPP 60

QY 83 ATANLVTCNVK 94
      |||
Db 61 ATANLVTCNVK 72

RESULT 7
US-09-497-967-58
; Sequence 58, Application US/09497967
; GENERAL INFORMATION:
; APPLICANT: Dickerson, Jr., Harry W.
; APPLICANT: Lin, Tian-Long
; TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF
; TITLE OF INVENTION: ICHTHYOPHATHIRIUS
; FILE REFERENCE: 235.00170101
; CURRENT APPLICATION NUMBER: US/09/497,967
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/131,121
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/118,634
; PRIOR FILING DATE: 1999-02-04
; PRIOR APPLICATION NUMBER: 60/122,372
; PRIOR FILING DATE: 1999-03-02
; PRIOR APPLICATION NUMBER: 60/124,905
; PRIOR FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 58
; LENGTH: 71
; TYPE: PRT
; ORGANISM: Ichthyophthirius multifiliis
US-09-497-967-58

Query Match      15.9%; Score 403; DB 5; Length 71;
Best Local Similarity 100.0%; Pred. No. 1.4e-26;
Matches 71; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 241 CPDGTISAAGYNNVAQNTCTNCAPNFYNNAPNPNPSTCLPCPANKDYGAETAGG 300
      |||
Db 1 CPDGTISAAGYNNVAQNTCTNCAPNFYNNAPNPNPSTCLPCPANKDYGAETAGG 60

QY 301 AATLAKQCNIA 311
      |||
Db 61 AATLAKQCNIA 71

RESULT 8
US-09-497-967-60
; Sequence 60, Application US/09497967
; GENERAL INFORMATION:
; APPLICANT: Dickerson, Jr., Harry W.
; APPLICANT: Lin, Tian-Long
; TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF
; TITLE OF INVENTION: ICHTHYOPHATHIRIUS
; FILE REFERENCE: 235.00170101
; CURRENT APPLICATION NUMBER: US/09/497,967
; PRIOR FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/131,121
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/118,634
; PRIOR FILING DATE: 1999-02-04
; PRIOR APPLICATION NUMBER: 60/122,372

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; PRIOR FILING DATE: 1999-03-02
; PRIOR APPLICATION NUMBER: 60/124,905
; PRIOR FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 60
; LENGTH: 72
; TYPE: PRT
; ORGANISM: Ichthyophthirius multifiliis
US-09-497-967-60

Query Match      15.3%; Score 389; DB 5; Length 72;
Best Local Similarity 100.0%; Pred. No. 2e-25;
Matches 72; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 382 CPAGTVLTGTTSTYKQAASECYKCAANFYTTKOTDWWAGIDTCTSCNKKLTSGAENLP 441
      |||
Db 1 CPAGTVLTGTTSTYKQAASECYKCAANFYTTKOTDWWAGIDTCTSCNKKLTSGAENLP 60

QY 442 ESAKKNITQCDFA 453
      |||
Db 61 ESAKKNITQCDFA 72

RESULT 9
US-09-497-967-56
; Sequence 56, Application US/09497967
; GENERAL INFORMATION:
; APPLICANT: Clark, Theodore G.
; APPLICANT: Dickerson, Jr., Harry W.
; APPLICANT: Lin, Tian-Long
; TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF
; TITLE OF INVENTION: ICHTHYOPHATHIRIUS
; FILE REFERENCE: 235.00170101
; CURRENT APPLICATION NUMBER: US/09/497,967
; CURRENT FILING DATE: 2000-02-04
; CURRENT APPLICATION NUMBER: 60/131,121
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/118,634
; PRIOR FILING DATE: 1999-02-04
; PRIOR APPLICATION NUMBER: 60/122,372
; PRIOR FILING DATE: 1999-03-02
; PRIOR APPLICATION NUMBER: 60/124,905
; PRIOR FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 56
; LENGTH: 70
; TYPE: PRT
; ORGANISM: Ichthyophthirius multifiliis
US-09-497-967-56

Query Match      14.8%; Score 375; DB 5; Length 70;
Best Local Similarity 100.0%; Pred. No. 2.6e-24;
Matches 70; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 95 CPAGTAIAGGATDYAAITTECVNCRINFYNNAPNPNAGASTCTACPVNVRVGGALTAGNA 154
      |||
Db 1 CPAGTAIAGGATDYAAITTECVNCRINFYNNAPNPNAGASTCTACPVNVRVGGALTAGNA 60

QY 155 ATIVAOCNVA 164
      |||
Db 61 ATIVAOCNVA 70

RESULT 10
US-09-497-967-59
; Sequence 59, Application US/09497967
; GENERAL INFORMATION:
; APPLICANT: Clark, Theodore G.
; APPLICANT: Dickerson, Jr., Harry W.

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; APPLICANT: Lin, Tian-Long
; TITLE OF INVENTION: DIAGNOSTIC AND PROTECTIVE ANTIGEN GENE SEQUENCES OF
; TITLE OF INVENTION: ICHTHYOPHTHIRIUS
; FILE REFERENCE: 235.00170101
; CURRENT APPLICATION NUMBER: US/09/497,967
; CURRENT FILING DATE: 2000-02-04
; PRIOR APPLICATION NUMBER: 60/131,121
; PRIOR FILING DATE: 1999-04-27
; PRIOR APPLICATION NUMBER: 60/118,634
; PRIOR FILING DATE: 1999-02-04
; PRIOR APPLICATION NUMBER: 60/122,372
; PRIOR FILING DATE: 1999-03-02
; PRIOR APPLICATION NUMBER: 60/124,905
; PRIOR FILING DATE: 1999-03-17
; NUMBER OF SEQ ID NOS: 102
; SOFTWARE: PatentIn ver. 2.1
; SEQ ID NO 59
; LENGTH: 70
; TYPE: PRT
; ORGANISM: Ichthyophthirius multifiliis
; US-09-497-967-59

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	Query Match	14.7%	Score 373;	DB 5;	Length 70;
	Best Local Similarity	100.08;	pred.No. 3.8e-24;		
	Matches	70;	Conservative	0;	Mismatches
				Indels	Gaps
Qy	312	CPDGTAIASGATNYVILQTECLNCAANFYFDGNNFQAGSSRCKACPANKVQGAVATAGT	371		
Dd	1	CPDGTAIASGATNYVILQTECLNCAANFYFDGNNFQAGSSRCKACPANKVQGAVATAGT	60		
Qy	372	ATLIAQCALE 381			
Dd	61	ATLIAQCALE 70			

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RESULT 11
US-09-975-143-47
; Sequence 47, Application US/09975143
; GENERAL INFORMATION:
; APPLICANT: HSU, Daniel, K.
; APPLICANT: LIU, Fu-Tong
; APPLICANT: DOWLING, Christopher, A.
; TITLE OF INVENTION: GALECTIN EXPRESSION IS INDUCED IN
; TITLE OF INVENTION: CIRRHOTIC LIVER AND HEPATOCELLULAR CARCINOMA
; FILE REFERENCE: DANHSU.001C1
; CURRENT APPLICATION NUMBER: US/09/975.143
; CURRENT FILING DATE: 2001-10-10
; PRIOR APPLICATION NUMBER: PCT/US00/08561
; PRIOR FILING DATE: 2000-03-29
; NUMBER OF SEQ ID NOS: 47
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 47
; LENGTH: 914
; TYPE: PRT
; ORGANISM: human
US-09-975-143-47

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	Query Match	9.4%	Score 237.5	DB 5	Length 914
	Best Local Similarity	25.7%	Pred. No. 5.6e-12		
	Matches 123	Conservative	9	Mismatches 208	Indels 139
					Gaps 19
QY	23	CPVGTETNTAGQVDLGTTPANCVCQKNFYNNAAAFVPGASTC-----TPCPQKKDAG	76		
Ddb	500	CACGCTTCAA-----TGAGAACAC-----AGGAGAGTCATTGTTTCCATACAA	544		
QY	77	AQNPPTANLVTCNVKCPAGTAIGGATDYAAIITCEVCNCRINFYNENAPFNAGAST	136		
Ddb	545	AGCTGGGATA-----ATAACTGGGGAAGGGAAGAACACAGTC-----GGTT	585		
QY	137	CTACPVNRVGAL-TAGNA-----ATIVAOCNVACPTGTALDDGVTTDVRFSFTVCVKRL	191		

Db	586	TTTCCCATTTGAAAGTGGGAAACCAFTCAAAATACAAGTACTGGTTGAACCTGACCA	----	641
QY	192	NEYINGNNGTFFNPKSQCPCAIPKAPNVAQATLGNDAITTAQCNVACPDPGTISAAGV	251	
Db	642	-----	-----	
QY	252	-----NNWQAQNTCTNCAPNEYNNNPNPFGNSCLPCPANKDYGAEAT----	297	
Db	680	ACAATCATCGGGTTAAAAACT-CAA	-----TGAATCATGCAAACTGGGAATTTTC	738
QY	298	---AGGAATLAKQNCIACPDG-----TATAGATNVYIQTBECLNCAANFYFDGNFQ	347	
Db	729	TGGTGACATAGACCTCACCAGTGGTTCATATACCATGATATAATCTGAAA-----GGGC	783	
QY	348	AGSSRCKACPANKVOGAVATAGGTATLTAOCALCPAG-----	392	
Db	784	AGATTAAAAAANAANAAGAAATCTAAACCTTCATGTCTAAAGGTTTCATGTCTCACTG	843	
QY	393	-----TSTYKQARSECVKA--ANFYTTKQTDWVAG-IDTCTSCNKKLTSGAEA	438	
Db	844	TGAGTGAAAAATTTTACATTCATCAATATCCCTCTTGAAGTCATGCTACTTAATAATA	902	

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RESULT 12
PCT-US01-32140-33
; Sequence 33, Application PC/TUS0132140
; GENERAL INFORMATION:
; APPLICANT: BIOGEN, INC.
; APPLICANT: GARBER, Ellen
; APPLICANT: LYNE, Paul
; APPLICANT: SALDHANA, Jose W.
; TITLE OF INVENTION: HUMANIZED ANTI-LT-BETA
; FILE REFERENCE: A100 PCT
; CURRENT APPLICATION NUMBER: PCT/US01/32140
; CURRENT FILING DATE: 2001-10-12
; PRIOR APPLICATION NUMBER: 60/240,285
; PRIOR FILING DATE: 2000-10-13
; PRIOR APPLICATION NUMBER: 60/275,289
; PRIOR FILING DATE: 2001-03-13
; PRIOR APPLICATION NUMBER: 60/299,987
; PRIOR FILING DATE: 2001-06-21
; NUMBER OF SEQ ID NOS: 33
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 33
; LENGTH: 4852
; TYPE: PRT
; ORGANISM: Homo Sapien
PCT-US01-32140-33

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Query Match	8.8%;	Score 222.5;	DB 1;	Length 4852;
Best Local Similarity	24.8%;	Pred. No. 5.4e-10;		
Matches 112;	Conservative 11;	Mismatches 208;	Indels 121;	Gaps 19;
QY	62	GASTCTPCPOKKDACAQNPBPATANLVTCNVKPCAGTATAGGATDYAAIITECVNC	121	
DB	3523	GYCGCAACSEQDCAG-----AGACAATGC---CAAGAACAGCCTCTAC-----CTGC---	3566	
QY	122	FYNENAPNFNAG--STCTACPVNRVGGALTAGNAATIVAAQCIVA--CPGTALDDGVTTD	178	
DB	3567	-----AGATGACGAGCCTCAGGCGCTGAGGACACACAGCCATGDCATGTATTGGTTT--	3615	
QY	179	YVRSFTECVKRLNF-----YVNGNGNTFNPGRSQCTPCPAIKPANVAQA	225	
DB	3616	-----CGCCAGGCCCGGGAAGGGCTGGDGGCTGAGGACACAGCTGTGTATTACT	3668	
QY	226	TLG-----NDATITTAQCNVACPDTGTTISAGVNNVVAQNTCTNCAPNF-----	268	
DB	3669	GTGTAAGAGDGTGACTATTACATGATTATGG-----GTGCGCCAGGCCCGGGAAAGGG	3721	
QY	269	-YNNNAPNFPNGST-----CLCPKANK-----DYGNATAGA-----ATLAK	306	
DB	3722	CTGGAGDAGGGCTGAGGACACAGCTGTGTATTACTGCCAAGAGAGAGAGAAATCGTAAAC	3781	

[illegible]

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Db 91 GGNGTCGNGGAGCNGTGTGAGTGGGAAGAA-----GGCNAC 128
QY 138 TACPVNRVGGALTAGNAATIVACNACVACPTGTALDDGVTTDYVRSFTECVKRLNIFYNG 197
Db 129 GTCAANAAGGACCAATATT-----TGCAA-----NG 154
QY 198 NNGN-----TPFNPGRKSQCTPCPAIKPANVAQATLGNDAITIAQCN--VACPDGTI 246
Db 155 NNGNCCAGGCGCTGTCNCGCGGCGAGTTGTAAATAAATAAANA--GAACNGCGACAGACA 212
QY 247 SAACVNVNVAQNTTEC--TNCAPNFYNNAPNFNPNGNSTCLPCPANKDYGAEATAGGAATL 304
Db 213 AGTGTNNGTTGACCCGGAAGCNAAGTGGATNCAGGAGTAC-CTGGAGNNAACTATGACACA 271
QY 305 AKO---CNIACPDGTATASGATNYVILQTECLNCRANFYFDGNNFQAGSSRCACAPANKV 361
Db 272 ANTAAGCGCAACAGCCAAAGAGG--ACTTNCGGCTA-----GACCCACTCG-- 315
QY 362 QGAVATAGGTATLIAQCALECPAGTVLTDGTTSTYKQAAASECVKCAA 408
Db 316 -----AGGAAAACATAAAACCTTGTGAGAGATGA--AGGNCAAAGA 354
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Search completed: December 26, 2001, 10:38:18
Job time: 169 sec

